

WHAT IS CLAIMED IS:

1. A method for configuring components for power line communications, comprising:
 - installing an inductive coupler that employs a power line conductor as a primary winding;
 - connecting a capacitor across a secondary winding of said inductive coupler for creating a resonant circuit with said secondary winding at a frequency within a desired frequency band; and
 - connecting a communications device to said secondary winding via an impedance matching transformer,wherein said resonant circuit has a loaded Q consistent with said desired bandwidth.
2. A method for coupling data between a power line and a communication device, comprising:
 - installing a capacitor in series with a conductive cylinder between said power line and said communication device,wherein said capacitor is for blocking power line voltage while passing a signal between said power line and said communication device, and wherein said conductive cylinder appears as a low inductance to said signal.
3. The method of claim 2, further comprising installing a high interruption current fuse in series with said capacitor.
4. An arrangement of components for coupling data between a power line and a communication device, comprising:
 - an inductive coupler that employs a power line conductor as a primary winding;

a capacitor connected across a secondary winding of said inductive coupler
for creating a resonant circuit with said secondary winding at a
frequency within a desired frequency band; and
an impedance matching transformer for connecting a communications device
to said secondary winding,
wherein said resonant circuit has a loaded Q consistent with said desired
bandwidth.

5. An arrangement of components for coupling data between a power line
and a communication device, comprising:
a capacitor in series with a conductive cylinder between said power line and
said communication device,
wherein said capacitor is for blocking power line voltage while passing a
signal between said power line and said communication device, and
wherein said conductive cylinder appears as a low inductance to said signal.

6. The arrangement of claim 5, further comprising a high interruption current
fuse in series with said capacitor.